Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

(Previously Presented) A projector comprising:
 an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system, the rock crystal member being disposed not to change a polarizing state of light passing through the rock crystal member.

(Currently Amended) A projector comprising:
 an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system,

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially perpendicular to a center axis of a <u>linear polarized</u> light passing through the rock crystal member and that the Z axis of the rock crystal is

substantially parallel to or substantially perpendicular to an electric vector of the linearly polarized light.

- 3. (Canceled)
- 4. (Previously Presented) A projector comprising:
 an illumination optical system for emitting a light;
 an electro-optical device for modulating the light emitted from the

illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system,

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially parallel to a center axis of a light passing through the rock crystal member.

(Currently Amended) A projector comprising:
 an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system,

wherein the optical component comprises:

a rock crystal substrate as the rock crystal member; and

an optical elementa polarizing plate provided on the rock crystal substrate,

wherein a Z axis of the rock crystal substrate is set to be substantially parallel
to a surface of the substrate, and the polarizing plate is provided on the rock crystal substrate
in such a manner that a polarization axis of the polarizing plate is substantially parallel to or
substantially perpendicular to a Z axis of the rock crystal.

- 6. (Canceled)
- 7. (Previously Presented) A projector comprising:

 an illumination optical system for emitting a light;

 an electro-optical device for modulating the light emitted from the illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system,

wherein the optical component comprises:

a rock crystal substrate as the rock crystal member; and

an optical element provided on the rock crystal substrate,

wherein a Z axis of the rock crystal substrate is set to be substantially

perpendicular to a surface of the substrate.

8. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device, wherein

the electro-optical device has a pair of substrates,

at least one of the pair of substrates is a rock crystal substrate composed of rock crystal, and

a Z axis of the rock crystal substrate is set to be substantially parallel to or substantially perpendicular to a surface of the substrate.

9. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system, wherein the rock crystal member is a lens.

10. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the illumination optical system comprises a polarized light generation section for emitting a predetermined polarized light,

the polarized light generation section comprising:

an optical component for dividing an incident light into two different polarized lights; and

a selective retardation plate for adjusting one of the two polarized lights output from the optical component to the other,

the optical component comprising:

a plurality of rock crystal members composed of rock crystal and arrayed in a predetermined direction; and

a polarization separation film and a reflection film that are alternately arranged on interfaces of the plurality of rock crystal members.

11. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the illumination optical system comprises a polarized light generation section for emitting a predetermined polarized light,

the polarized light generation section comprising:

an optical component for dividing an incident light into two different polarized lights; and

a selective retardation plate for adjusting one of the two polarized lights output from the optical component to the other,

the optical component comprising:

a rock crystal member composed of rock crystal; and

a polarization separation film formed on the rock crystal member.

12. (Previously Presented) A projector comprising:an illumination optical system for emitting a light;

a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components;

first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights;

a color light composition optical system for combining the first through the third modulated lights;

a projection optical system for projecting composite light output from the color light composition optical system; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system, the rock crystal member being disposed not to change a polarizing state of light passing through the rock crystal member.

13. (Currently Amended) A projector comprising:an illumination optical system for emitting a light;

a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components;

first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights;

a color light composition optical system for combining the first through the third modulated lights;

a projection optical system for projecting composite light output from the color light composition optical system; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system,

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially perpendicular to a center axis of a <u>linearly polarized</u> light passing through the rock crystal member and that the Z axis of the rock crystal is substantially parallel to or substantially perpendicular to an electric vector of the linearly polarized light.

- 14. (Canceled)
- 15. (Previously Presented) A projector comprising:an illumination optical system for emitting a light;

a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components;

first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights;

a color light composition optical system for combining the first through the third modulated lights;

a projection optical system for projecting composite light output from the color light composition optical system; and

an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system,

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially parallel to a center axis of a light passing through the rock crystal member.

16. (Previously Presented) A projector comprising:an illumination optical system for emitting a light;

a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components;

first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights;

a color light composition optical system for combining the first through the third modulated lights; and

a projection optical system for projecting composite light output from the color light composition optical system,

wherein at least one of the color light separation optical system and the color light composition optical system comprises an optical component, and

the optical component comprises:

four columnar rock crystal members composed of rock crystal and divided by a substantially X-shaped interface; and

a selector film formed on the interface to select light having wavelength in a predetermined range.

17. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components;

first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights;

a color light composition optical system for combining the first through the third modulated lights; and

a projection optical system for projecting composite light output from the color light composition optical system,

wherein at least one of the color light separation optical system and the color light composition optical system comprises an optical component, and

the optical component comprises:

a rock crystal member composed of rock crystal; and

a selector film formed on the rock crystal member to select light having wavelength in a predetermined range.

18. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information;

a projection optical system for projecting a modulated light generated by the electro-optical device; and

an optical component having a rock crystal substrate composed of rock crystal and a polarizing plate provided on the rock crystal substrate, the optical component being located in an optical path including the illumination optical system and the projection optical system.

19. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the

illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the

wherein the electro-optical device has a pair of substrates,

electro-optical device,

at least one of the pair of substrates is a rock crystal substrate composed of rock crystal.